

WEST

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L3: Entry 1 of 2

File: JPAB

Mar 30, 1993

PUB-NO: JP405077613A
DOCUMENT-IDENTIFIER: JP 05077613 A
TITLE: PNEUMATIC TIRE

PUBN-DATE: March 30, 1993

INVENTOR-INFORMATION:

NAME

COUNTRY

ATAKA, HIROSHI

MOTOGAMI, FUMINOBU

ASSIGNEE-INFORMATION:

NAME

COUNTRY

SUMITOMO RUBBER IND LTD

APPL-NO: JP03122478

APPL-DATE: April 24, 1991

INT-CL (IPC): B60C 11/12; B60C 11/10; B60C 11/11

ABSTRACT:

PURPOSE: To uniform rigidity of each block at the lower side, to improve abrasion resistance, to improve travelling performance and to heighten travelling performance at the time of travelling on the ice road for a plural number of blocks different in capacity forming a block pattern.

CONSTITUTION: A block group consisting of blocks divided by groove parts 11 of a tread part 2 is formed, and the block group includes blocks furnished with a plural number of small holes 14 extending rectangularly from a block surface to another block surface. The small holes are round or made in a straight sided shape more than four sides, the maximum sectional diameter (d) of the small holes is 0.1mm-2mm, depth (l) of the small holes is deeper than 2/3 of difference with rubber thickness H of the block (H-h) and shallower than the depth of the rubber thickness H of the aforementioned block minus 2mm and a pitch (p) between respective centers of the small holes 14, 14 adjacent to each other is 2mm-20mm.

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L3: Entry 2 of 2

File: DWPI

Mar 30, 1993

DERWENT-ACC-NO: 1993-140130

DERWENT-WEEK: 199317

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TITLE: Pneumatic tyre for ice and snow conditions - has blocks with small holes, round or polygonal, and dia. and depth of which are determined optimally to improve wear resistance and running performance

PATENT-ASSIGNEE:

ASSIGNEE

CODE

SUMITOMO RUBBER IND LTD

SUMR

PRIORITY-DATA: 1991JP-0122478 (April 24, 1991)

PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

PAGES

MAIN-IPC

JP 05077613 A

March 30, 1993

007

B60C011/12

APPLICATION-DATA:

PUB-NO

APPL-DATE

APPL-NO

DESCRIPTOR

JP 05077613A

April 24, 1991

1991JP-0122478

INT-CL (IPC): B60C 11/10; B60C 11/11; B60C 11/12

ABSTRACTED-PUB-NO: JP 05077613A

BASIC-ABSTRACT:

In a pneumatic tyre having blocks parted by circumferential and lateral grooves in its tread, some of the blocks have small holes which are at right angles to their block surfaces and have bottoms. The holes are round, or polygons with four or more angles, and the max. dia. (d) of each hole ranges from 0.1-2 mm. The depth of each hole is larger than two-thirds of the difference (H-h) between the thickness (H) of the block rubber from the block surface to the upper surface of the belt layer and the thickness (h) of the rubber from the groove bottom to the upper surface of the belt layer, and is smaller than the thickness (H) minus 2 mm.

Pref. the distance between the centres of each pair of adjacent small holes is ranges from 2-20 mm.

ADVANTAGE - This tyre can improve not only the wear resistance but also the running performance on icy and snowy roads.

CHOSEN-DRAWING: Dwg.0/4

TITLE-TERMS: PNEUMATIC TYRE ICE SNOW CONDITION BLOCK HOLE ROUND POLYGONAL DIAMETER
DEPTH DETERMINE OPTIMUM IMPROVE WEAR RESISTANCE RUN PERFORMANCE

DERWENT-CLASS: A95 Q11

CPI-CODES: A12-T01B;